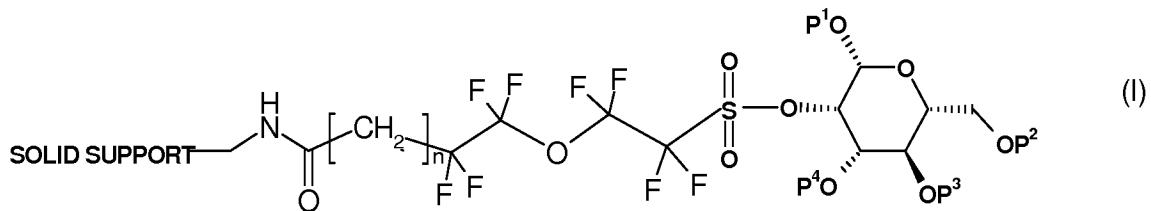


Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) A compound of formula (I):



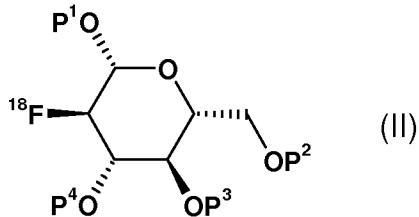
wherein P^1 , P^2 , P^3 , and P^4 are each independently hydrogen or a protecting group; and n is an integer of from 2 to 20.

2. (Original) A compound of formula (I) according to claim 1 in which n is 4 to 12.

3. (Previously presented) A compound of formula (I) according to claim 1 in which n is 6 to 10.

4. (Previously presented) A compound of formula (I) according to claim 1 in which n is 10.

5. (Previously presented) A process for the production of 2- ^{18}F -fluoro-2-deoxy-D-glucose (^{18}F -FDG) which comprises treatment of a compound of formula (I) according to claim 1, with $^{18}\text{F}^-$ to produce the labelled tracer of formula (II)

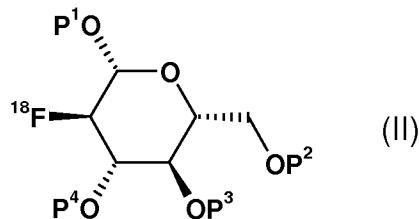


wherein P¹, P², P³, and P⁴ are each independently hydrogen or a protecting group; optionally followed by

- (i) removal of excess ¹⁸F⁻, for example by ion-exchange chromatography; and/or
- (ii) removal of the protecting groups; and/or
- (iii) removal of organic solvent; and/or
- (iv) formulation of the resultant compound of formula (II) as an aqueous solution.

6. (Previously presented) A radiopharmaceutical kit for the preparation of ¹⁸F-FDG for use in PET, which comprises:

- (i) a vessel containing a compound of formula (I) according to claim 1 and
- (ii) means for eluting the vessel with a source of ¹⁸F⁻;
- (iii) an ion-exchange cartridge for removal of excess ¹⁸F; and optionally
- (iv) a cartridge for solid-phase deprotection of the resultant product of formula (II).



7. (Previously presented) A cartridge for a radiopharmaceutical kit for the preparation of an ¹⁸F-FDG for use in PET which comprises:

- (i) a vessel containing a compound of formula (I) according to claim 1; and
- (ii) means for eluting the vessel with a source of ¹⁸F⁻.

8. (Cancelled).

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Amtd. Dated December 9, 2010
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9. (New) A compound of formula (I) according to claim 1 wherein:

n is an integer from 4-12;

P^1 is a C_{1-4} alkyl;

P^4 is C_{1-4} alkoxyethyl; and

P^2 and P^3 together with the oxygens to which they are attached form a 1,3-dioxolane.